AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1 and 2 (Canceled).

Claim 3 (Currently Amended): A communication apparatus for converting a frequency of received signals from a plurality of hand sets ~~(A, B)~~ and retransmitting the signals; said communication apparatus comprising:

a whole spectrum inverter ~~(40)~~ for inverting a frequency spectrum including the received signals from the plurality of hand sets ~~(A, B)~~, and

a partial spectrum inverter ~~(105, 106)~~ for inverting a frequency spectrum for each spectrum of the plurality of received signals included in the frequency spectrum; wherein

the plurality of received signals included in the frequency spectrum inverted in the whole spectrum inverter ~~(40)~~ are retransmitted.

Claim 4 (Currently Amended): The communication apparatus according to Claim 3, wherein

the partial spectrum inverter is an arithmetic signal processor ~~(105, 106)~~.

Claim 5 (Canceled).

Claim 6 (Currently Amended): The communication apparatus according to Claim 3, wherein

the whole spectrum inverter ~~(40)~~ and the partial spectrum inverter ~~(105, 106)~~ include an arithmetic signal processor.

Claim 7 (Original): The communication apparatus according to Claim 6, wherein the partial spectrum inverter is provided before the whole spectrum inverter.

Claim 8 (Previously Presented): A frequency spectrum inversion method comprising the steps of:

sampling signals including a first reception signal having a first frequency and a second reception signal having a second frequency, both the first and second frequencies being within a specified frequency band, by a predetermined sampling frequency;

complementing sample data obtained by the sampling to convert a sampling rate; and

extracting by a bandpass filter only a spectrum of the signal, generated by the sampling, whose frequency spectrum is inverted out of frequency spectrums after the conversion of the sampling rate so as to extract a second transmission signal having a third frequency corresponding to the first reception signal and a first transmission signal having a fourth frequency corresponding to the second reception signal, both the third and fourth frequencies being within a specified frequency band.

Claim 9 (Previously Presented): A frequency spectrum inversion method comprising the steps of:

sampling signals including a first reception signal having a first frequency and a second reception signal having a second frequency, both the first and second frequencies being within a specified frequency band, by a predetermined sampling frequency;

decimating sample data obtained by the sampling to convert a sampling rate; and

extracting by a bandpass filter only a spectrum of the signal, generated by the conversion of the sampling rate, whose frequency spectrum is inverted so as to extract a second transmission signal having a third frequency corresponding to the first reception signal and a first transmission signal having a fourth frequency corresponding to the second reception signal, both the third and fourth frequencies being within a specified frequency band.

Claim 10 (Previously Presented): A frequency spectrum inversion method comprising the steps of:

sampling signals including a first reception signal having a first frequency and a second reception signal having a second frequency, both the first and second frequencies being within a specified frequency band, by a predetermined sampling frequency;

setting part of the sample data obtained by the sampling to zero; and

extracting by a bandpass filter or lowpass filter only a spectrum of the signal, generated by setting part of the sample data obtained by the sampling to zero, whose frequency spectrum is inverted so as to extract a second transmission signal having a third frequency corresponding to the first reception signal and a first transmission signal having a fourth frequency corresponding to the second reception signal, both the third and fourth frequencies being within a specified frequency band.

Claim 11 (Previously Presented): A storage medium, storing a computer readable program that is executed by a computer,

wherein said program includes instructions for executing the frequency spectrum inversion method according to claim 8.

Claim 12 (Previously Presented): A storage medium, storing a computer readable program that is executed by a computer,

wherein said program includes instructions for executing the frequency spectrum inversion method according to Claim 9.

Claim 13 (Previously Presented): A storage medium, storing a computer readable program that is executed by a computer,

wherein said program includes instructions for executing the frequency spectrum inversion method according to Claim 10.

Claim 14 (Currently Amended): The frequency spectrum inversion method according to Claim 8; wherein

a value obtained by subtracting ~~subtracted~~ the first frequency from the fourth frequency is equal to a value obtained by subtracting ~~subtracted~~ the second frequency from the third frequency.

Claim 15 (Currently Amended): The frequency spectrum inversion method according to Claim 9; wherein

a value obtained by subtracting ~~subtracted~~ the first frequency from the fourth frequency is equal to a value obtained by subtracting ~~subtracted~~ the second frequency from the third frequency.

Claim 16 (Currently Amended): The frequency spectrum inversion method according to claim 10; wherein

a value obtained by subtracting ~~subtracted~~ the first frequency from the fourth frequency is equal to a value obtained by subtracting ~~subtracted~~ the second frequency from the third frequency.

Claim 17 (Currently Amended): A communication apparatus comprising:

a receiver ~~(20)~~ for receiving a signal having a first frequency ~~(fta)~~ within a transmission frequency band ~~of hand set~~ as a first reception signal from a first hand set ~~(A)~~ and a signal having a second frequency ~~(ftb)~~ within the transmission frequency band as a second reception signal from a second hand ~~had~~ set ~~(B)~~,

a whole spectrum inverter ~~(40)~~ for inverting in a lump a frequency spectrum including the first and second reception signals so that the first reception signal is converted to a second transmission signal having a third frequency ~~(frb)~~ within a reception frequency band ~~of hand set~~ and the second reception signal is converted to a first transmission signal having a fourth frequency ~~(fra)~~ within the reception frequency band, and

a transmitter ~~(30)~~ for transmitting the second transmission signal from the whole spectrum inverter ~~(40)~~ to the second hand set ~~(B)~~ and the first transmission signal from the whole spectrum inverter ~~(40)~~ to the first hand set ~~(A)~~; wherein

a value obtained by subtracting ~~subtracted~~ the first frequency ~~(fta)~~ of the first reception signal transmitted by the first had set ~~(A)~~ from the fourth frequency ~~(fra)~~ of the first transmission signal transmitted to the first hand set ~~(A)~~ is equal to a value obtained by subtracting ~~subtracted~~ the second frequency ~~(ftb)~~ of the second reception signal transmitted by the second hand set ~~(B)~~ from the third frequency ~~(frb)~~ of the second transmission signal transmitted to the second hand ~~had~~ set ~~(B)~~ in order to achieve a fixed duplex interval communication between the first and second hand sets ~~(A, B)~~.